
NASA's Mission Operations and Communications Services

**This Description applies only to proposals in response to
NASA's Announcement of Opportunity for Small Explorers (SMEX)
and Missions of Opportunity**

AO 99-OSS-05

This Document Revised

November 1999

This document is intended to assist in the preparation of proposals in response to an Announcement of Opportunity (AO) issued by NASA's Office of Space Science (OSS) for Small Explorers (SMEX) and Missions of Opportunity. NASA provides many operations and communications services that are available for NASA missions. The use of these services will incur costs to the user and estimates for these costs need to be included in proposals submitted under this AO. To facilitate proposal preparation, proposers are to read this appendix and contact the individuals named in Section 1.6 below.

As a matter of policy, NASA will include estimated costs for mission operations and communications services, as well as an assessment of key parameters for mission operations, in the evaluation and selection processes for all Earth-orbiting and deep space missions. The OSS and the Space Operations Management Office (SOMO), are implementing this policy:

- ## 1.2 Choice of Service Providers

1.3 SOMO Services

NASA has consolidated management of space mission operations, space-ground communications, and ground wide area networks under **SOMO** at the Johnson Space Center. Consolidation of these systems, including the Deep Space Network (DSN), the NASA Ground Network (GN), the Tracking and Data Relay Satellite System (TDRSS), the NASA

SOMO has moved from a facilities-based support approach to one based upon standard services defined in terms of “units of service” and “cost per unit”. A *SOMO Services Catalog* defining these service is near completion and will be available to support SMEX proposal preparation. Table 1 summarizes SOMO service categories.

| | |
|--|--|
| | |
|--|--|

1.5 Standards

International Telecommunications Union (ITU)
National Telecommunications and Information Agency (NTIA)
Consultative Committee for Space Data Systems (CCSDS)
Space Frequency Coordination Group (SFCG)

1.6 SOMO Contact Information

Jon Walker
GSFC Center Mission Services Manager
Code 450
Goddard Space Flight Center
Greenbelt MD 20771
e-mail: jon.walker@gsfc.nasa.gov
Phone: (301) 286- 7795

John Dalton
SOMO Mission Services Manager
Code 720
Goddard Space Flight Center
Greenbelt MD 20771
Phone: (301) 286-7213 Fax number: (301) 286-1765
e-mail: john.dalton@gsfc.nasa.gov

3

[illegible]

Prospective users of SOMO facilities can obtain additional information from the following documents:

-
- 5